

# ABSTRACT OF THE DISCLOSURE

A radiation image read-out apparatus is provided with a line sensor which detects stimulated emission emitted from a radiation image convertor panel upon exposure to a line-like stimulating light beam extending in a main scanning direction and reads out a radiation image recorded on the radiation image convertor panel while moving the line sensor and the radiation image convertor panel relatively to each other in a sub-scanning direction intersecting the main scanning direction. The line sensor includes a CCD having a number of light receiving portions two-dimensionally arranged along the main scanning direction and outputs electric charges obtained by photoelectrically converting the stimulated emission received by the light receiving portions after binning the electric charges in a direction perpendicular to the main scanning direction.